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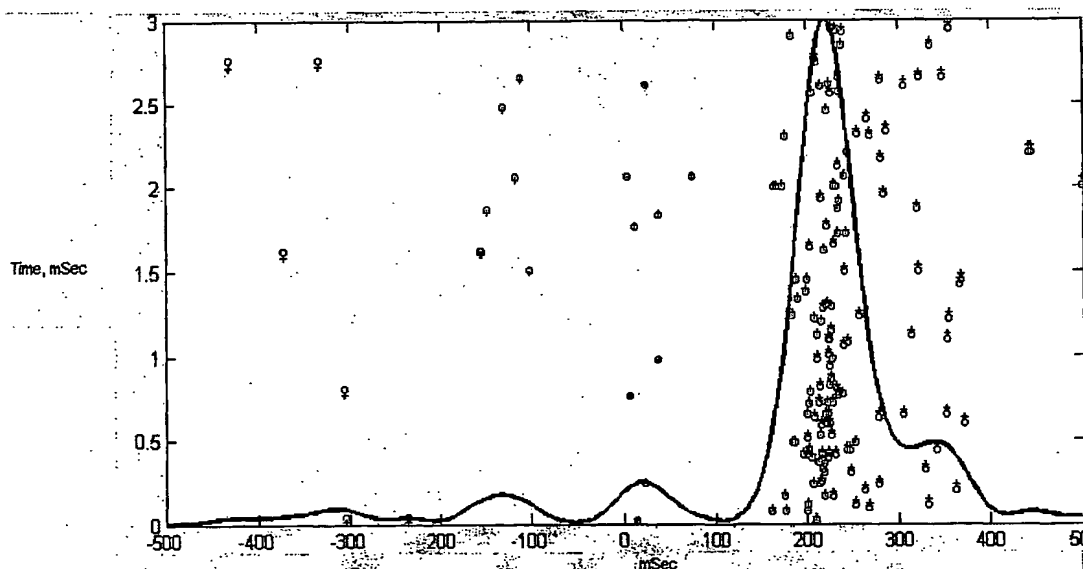
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(54) Title: **METHODS FOR ENHANCING THE ANALYSIS OF PARTICLE DETECTION**



(57) Abstract: Methods for enhancing the analysis of particle detection are provided comprising measuring a first electromagnetic radiation signal provided by a particle, comparing by cross-correlation the electromagnetic radiation signal emitted by the particle, and further applying an analytical filter to the cross-correlation events, thereby enhancing the analysis of the particle emission.

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